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NEWS 3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS 4	APR 02	DWPI: New display format ALLSTR available
NEWS 5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS 6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS 7	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAplus
NEWS 8	APR 07	MEDLINE Coverage Is Extended Back to 1947
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NEWS 17	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS 18	JUL 26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica
NEWS 19	SEP 15	MEDLINE Cited References provide additional revelant records with no additional searching.
NEWS 20	OCT 04	Removal of Pre-IPC 8 data fields streamlines displays in USPATFULL, USPAT2, and USPATOLD.
NEWS 21	OCT 04	Precision of EMBASE searching enhanced with new chemical name field

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:43:36 ON 24 NOV 2010

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 08:44:24 ON 24 NOV 2010
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8
DICTIONARY FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

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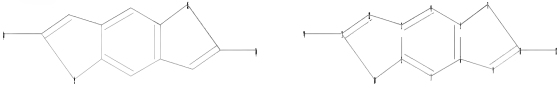
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\GL001.str

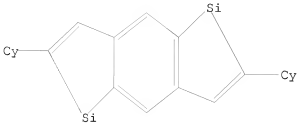


chain nodes :
13 14
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
8-13 11-14
ring bonds :
1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12
exact/norm bonds :
2-10 3-12 5-7 6-9 7-8 8-9 8-13 10-11 11-12 11-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom

L1 STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL
FULL SEARCH INITIATED 08:45:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4743 TO ITERATE

100.0% PROCESSED 4743 ITERATIONS 10 ANSWERS
SEARCH TIME: 00.00.01

L2 10 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	192.03	192.25

FILE 'CAPLUS' ENTERED AT 08:45:34 ON 24 NOV 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 24 Nov 2010 VOL 153 ISS 22
FILE LAST UPDATED: 23 Nov 2010 (20101123/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2
L3 6 L2

=> D L3 IBIB ABS HITSTR 1-6

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:615370 CAPLUS
DOCUMENT NUMBER: 150:551460
TITLE: Aryl-substituted siloles, their preparation, and threshold-reduced organic electroluminescent devices therewith
INVENTOR(S): Nakamura, Eiichi; Sato, Yoshiharu; Tsuji, Hayato; Ilies, Laurean
PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 32pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009108053	A	20090521	JP 2008-264653	20081010
PRIORITY APPLN. INFO.:			JP 2007-265948 A	20071011

OTHER SOURCE(S): MARPAT 150:551460
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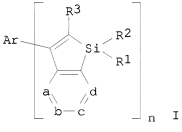

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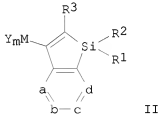

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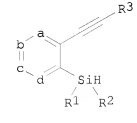

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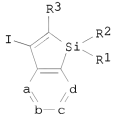


IV

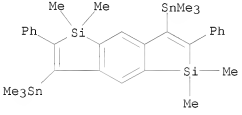
AB Silole compds. I [R1, R2 = C1-6 aliphatic hydrocarbyl, alkoxy, aromatic

hydrocarbyl, etc.; R3 = C1-6 aliphatic hydrocarbyl, aromatic hydrocarbyl, aromatic heterocycle; a-d = C, N; Ar = n-valent aromatic (heterocyclic) hydrocarbon; n = 1-6] are prepared by reacting II [Ar = YmM; R1-R3 = the same as above; Y = alkyl(amino), aryl; m = (m0 - 1) (m0 = valence number of M)] with ArXn (Ar, n = the same as above; X = halo). The II is prepared by reacting acetylene derivative III (R1-R3, a-d = the same as above) with Group IVA anionic species. Further claimed is a process for preparing I by reacting IV (Ar = i; R1-R3, a-d = the same as above) with ArZn [Ar = the same as above; Z = ZnX, MgX, SnR3, SiR3 (X = halo; R = alkyl, alkylamino, aryl)]. Organic LED containing the silole compound I in organic layers (e.g., emitting layers) show fine stability of thin-film structure and long-term stability of superior high luminescent characteristics.

IT 1152130-94-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(high-efficiency organic LED containing aryl-substituted condensed silole compds. in electron-transporting layers)

RN 1152130-94-3 CAPLUS

CN 1,5-Disila-s-indacene, 1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(trimethylstannyl)- (CA INDEX NAME)



L3 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1300654 CAPLUS

DOCUMENT NUMBER: 147:551330

TITLE: Organic field emission element containing polycyclic condensed ring compound as dopant in light-emitting layer

INVENTOR(S): Yamaguchi, Shigehiro; Yamada, Hiroshi; Uchida, Manabu

PATENT ASSIGNEE(S): Chisso Corp., Japan; Nagoya University

SOURCE: Jpn. Kokai Tokkyo Koho, 63pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007299980	A	20071115	JP 2006-127533	20060501

PRIORITY APPLN. INFO.: JP 2006-127533 20060501

OTHER SOURCE(S): MARPAT 147:551330

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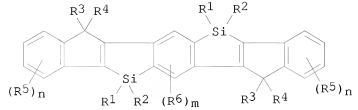

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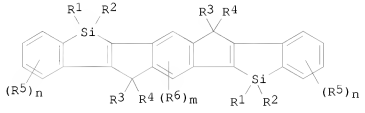


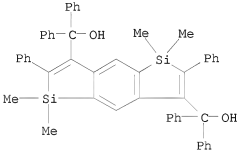
II

AB Disclosed is an organic field emission element comprising a light emitting layer between a pair of electrodes containing a host and a dopant, wherein the dopant is represented by I or II (R1-6 = H, alkyl, alkenyl, etc.; m = 0-2; and n = 0-4).

IT 848155-64-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of polycyclic condensed ring compound as dopant for organic field
emission element)

RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol, 1,5-dihydro-1,1,5,5-tetramethyl-α,α,α',α',2,6-hexaphenyl- (CA INDEX NAME)



L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1178328 CAPLUS

DOCUMENT NUMBER: 144:88342

TITLE: Synthesis, structures, and photophysical properties of silicon and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π-electron systems

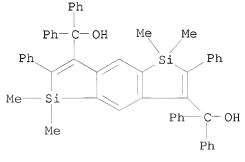
AUTHOR(S): Yamaguchi, Shigehiro; Xu, Caihong; Yamada, Hiroshi; Wakamiya, Atsushi
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Furo, Chikusa, Nagoya, 464-8602, Japan
SOURCE: Journal of Organometallic Chemistry (2005), 690(23), 5365-5377
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:88342

AB Partially or fully fused ladder oligo(p-phenylenevinylene)s (LOPVs) and related π-electron systems were synthesized. Thus, the intramol. reductive cyclization of o-silyl-substituted bis(phenylethynyl)benzenes with Li naphthalenide produces partially Si-bridged bis(styryl)benzenes consisting of silaindene or disilaindacene skeletons. By combining this cyclization with the Friedel-Crafts type electrophilic cyclization, a homologous series of the fully fused LOPVs and related compds., bearing Si and C bridges, was synthesized in fairly good yields. The longest example of the LOPVs is the 13-ring-fused system that has a nearly flat π-conjugated framework with a length of 2.9 nm, as proven by x-ray crystallog. All the produced ladder π-electron systems show intense fluorescence in the visible region with high quantum yields as well as relatively small Stokes shifts. As the Si contents increase or the disilaindacene skeleton is incorporated, the emission maxima shift to the longer wavelengths and the fluorescent quantum yields slightly decrease. These trends can be rationalized as due to the σ* effect of Si, wherein the Si bridges contribute to the electronic structure through σ*-π* orbital interaction that cause the red shifts in the emission maxima and suppress the radiative decay process from the singlet excited state.

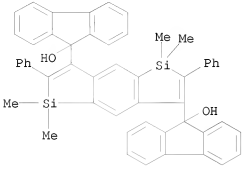
IT 848155-64-6P 848155-71-5P 848155-76-0P
872142-08-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π-electron systems)

RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol, 1,5-dihydro-1,1,5,5-tetramethyl-α,α,α',α',2,6-hexaphenyl- (CA INDEX NAME)

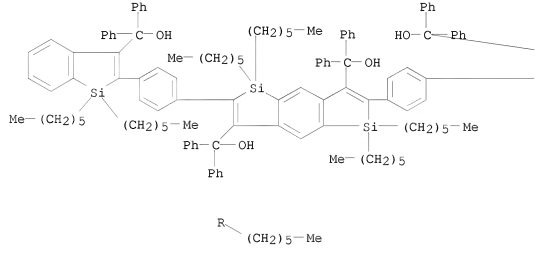


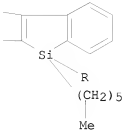
RN 848155-71-5 CAPLUS
CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)



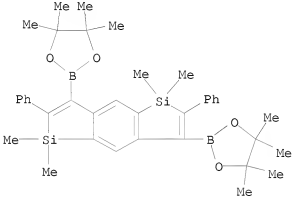
RN 848155-76-0 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol, 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

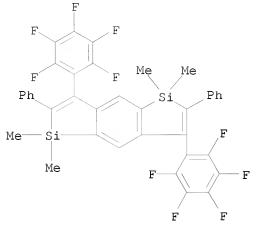




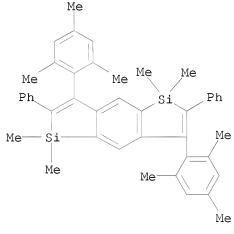
RN 872142-08-0 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (9CI) (CA INDEX NAME)



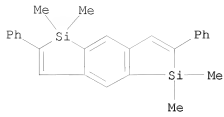
IT 794512-60-0P 872142-09-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π-electron systems)
RN 794512-60-0 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)



RN 872142-09-1 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



IT 794512-52-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(radiative and non-radiative decay rate consts. for; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π-electron systems)
RN 794512-52-0 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:429419 CAPLUS
DOCUMENT NUMBER: 142:482144
TITLE: Preparation of silicon-containing polycyclic fused ring type π-conjugated organic materials, intermediate therefor, process for producing polycyclic fused ring type π-conjugated organic materials, and process for producing intermediate for polycyclic fused ring type π-conjugated organic materials
INVENTOR(S): Yamaguchi, Shigehiro; Xu, Caihong
PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044826	A1	20050519	WO 2004-JP16433	20041105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005154410	A	20050616	JP 2004-224771	20040730
JP 4552023	B2	20100929		
CA 2544427	A1	20050519	CA 2004-2544427	20041105
EP 1700860	A1	20060913	EP 2004-818199	20041105
R: DE, FR, GB, NL				
CN 1875024	A	20061206	CN 2004-80031650	20041105
CN 100457761	C	20090204		
CN 101456876	A	20090617	CN 2008-10184528	20041105

KR 2006111560	A	20061027	KR 2006-7011173		20060607
KR 757636	B1	20070910			
US 20090143605	A1	20090604	US 2008-578352		20081229
PRIORITY APPLN. INFO.:			JP 2003-378923	A	20031107
			JP 2004-224771	A	20040730
			CN 2004-80031650	A3	20041105
			WO 2004-JP16433	W	20041105

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 142:482144
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Silicon-containing polycyclic fused ring type π-conjugated organic materials (I) [Ar1 = each (un)substituted arylene, oligoarylene or divalent heterocyclic or oligoheterocyclic group; R1, R2 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, aryloxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, arylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, each (un)substituted NH2, silyl, or silyloxy; R3 = H, alkyl, alkylthio, aryl, arylthio, arylalkyl, arylalkylthio, arylalkenyl, arylalkynyl, allyl, hydroxyalkyl, halomagnesium, halozinc, boric acid or its ester, boryl, heterocyclyl, halo, each (un)substituted hydroxymethyl, silyl, or stannyl; R4 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, arylalkoxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, allylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, substituted boryl, each (un)substituted NH2, silyl, or silyloxy; l = 0,1; n = 0-4] are prepared These compds., e.g. 1,4-bis(1,1-dimethyl-1H-1-silainden-2-yl)benzene derivs. (II) [E = H, Me, SiMe2H, 4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl (BPin)] are obtained by subjecting the starting material (III) to dimetalation with an organometallic base and trapping the resultant organometallic compound with an organosilicon reagent[(i) (1) n-BuLi or t-BuLi; (2) HMe2SiCl] to obtain the intermediate (IV), subsequently reacting the intermediate with a metallic reducing agent to cause an intramol. reductive cyclization reaction to proceed to thereby yield a dianion intermediate, and then trapping the dianion intermediate with an electrophilic agent [(ii) (1) lithium naphthalenide (LiNaph) in THF at room temperature for 5 min; (2) electrophile or NH4Cl]. The polycyclic fused ring type π-conjugated organic materials are excellent in luminescent properties and charge-transporting properties and useful as luminescent materials and charge-transporting materials with high luminescent efficiency and high charge-transporting efficiency, e.g. for electroluminescent devices (no data).

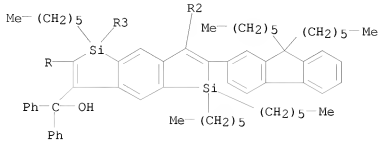
IT 848155-75-9P
RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of π-conjugated silicon-containing polycyclic fused ring compds.
via intramol. reductive cyclization of
1,4-bis(2-silylphenylethynyl)benzene or
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

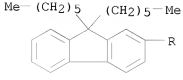
RN 848155-75-9 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol, 2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-

α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



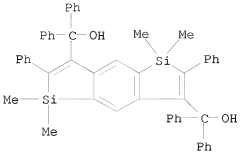


PAGE 2-A

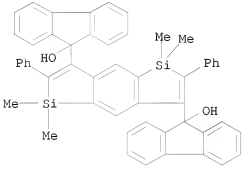
IT 848155-64-6P 848155-71-5P 848155-76-0P
852066-30-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of π-conjugated silicon-containing polycyclic fused ring compds.
via intramol. reductive cyclization of
1,4-bis(2-silylphenylethynyl)benzene or
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,
1,5-dihydro-1,1,5,5-tetramethyl-α,α,α',α',2,6-hexaphenyl- (CA INDEX NAME)

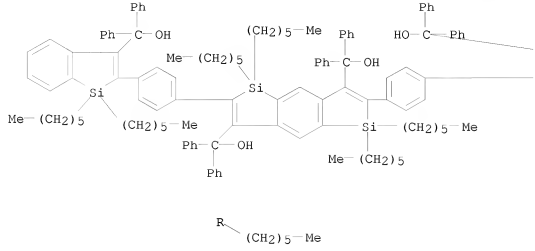


RN 848155-71-5 CAPLUS
CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)



RN 848155-76-0 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol, 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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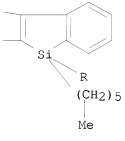
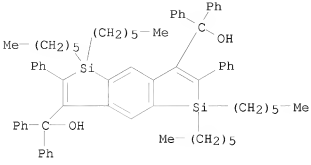
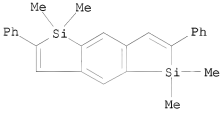


RN 852066-30-9 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol, 1,1,5,5-tetrahexyl-1,5-dihydro-α,α,α',α',2,6-hexaphenyl- (9CI) (CA INDEX NAME)



IT 794512-52-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of π-conjugated silicon-containing polycyclic fused ring compds.
via intramol. reductive cyclization of
1,4-bis(2-silylphenylethynyl)benzene or
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)
RN 794512-52-0 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
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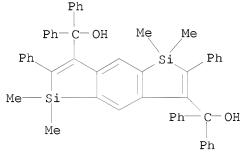
L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:64272 CAPLUS
DOCUMENT NUMBER: 142:316892
TITLE: Ladder oligo(p-phenylenevinylene)s with silicon and carbon bridges
AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, 464-8602, Japan
SOURCE: Journal of the American Chemical Society (2005), 127(6), 1638-1639
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:316892
AB A general and versatile synthetic method for ladder

oligo(p-phenylenevinylene)s (LOPVs) and related π-electron systems, having annelated π-conjugated structures with Si and C bridges, was developed from the combination of two cyclization reactions, i.e. The intramol. reductive cyclization of (o-silylphenyl)acetylene derivs. and the Friedel-Crafts-type cyclization. This methodol. allows the authors to synthesize a homologous series of the ladder mols. up to a 13-ring-fused system. The crystal structural anal. of the longest 13-ring-fused LOPV proves its nearly flat π-conjugated framework with a length of .apprx.2.9 nm. All the produced ladder π-electron systems show intense fluorescence in the visible region with high quantum yields as well as relatively small Stokes shifts.

IT 848155-64-6P 848155-71-5P 848155-75-9P
848155-76-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Friedel-Crafts-type cyclization of bis[(hydroxymethyl)benzosilolyl]benzene in presence of boron trifluoride to give ladder oligo(p-phenylenevinylene)s with silicon and carbon bridges)

RN 848155-64-6 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol, 1,5-dihydro-1,1,5,5-tetramethyl-α,α,α',α',2,6-hexaphenyl- (CA INDEX NAME)



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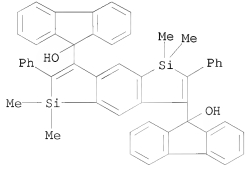
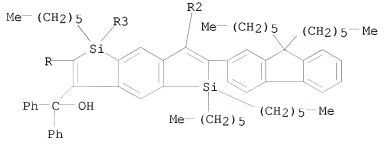
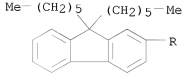
CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)



RN 848155-75-9 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol,
2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-
α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A





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RN 848155-76-0 CAPLUS
CN 1,5-Disila-s-indacene-3,7-dimethanol,
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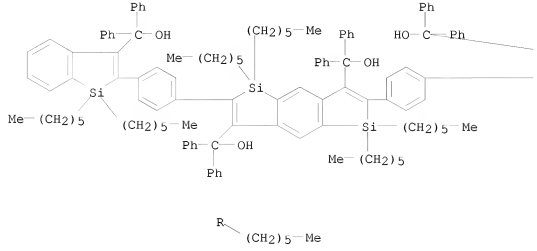
yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-
α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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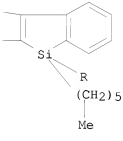
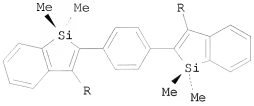


OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (45 CITINGS)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:773153 CAPLUS
DOCUMENT NUMBER: 141:424228
TITLE: General Silaindene Synthesis Based on Intramolecular Reductive Cyclization toward New Fluorescent Silicon-Containing π-Electron Materials
AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, 464-8602, USA
SOURCE: Organic Letters (2004), 6(21), 3707-3710
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:424228
GI



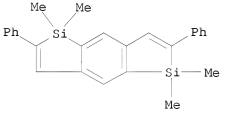
I

AB The reaction of (o-silylphenyl)acetylene derivs., e.g. 4-(2-Me2SiHC6H4C.tplbond.C)2C6H4 with lithium naphthalenide undergoes intramol. reductive cyclization to produce various silaindene derivs., I (R = H, Me, SiMe2H, Bpin, Br, C6F5), after quenching with electrophiles. On the basis of this methodol., a series of silaindene-containing π-electron systems are synthesized that show intense blue to greenish-blue fluorescence. The crystal structure of I (R = H) was determined

IT 794512-52-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; preparation of fluorescent silicon-containing π-electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-52-0 CAPLUS

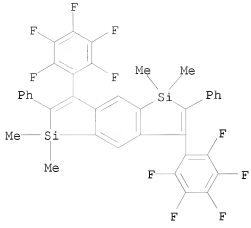
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI) (CA INDEX NAME)



IT 794512-60-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of fluorescent silicon-containing π-electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-60-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	37.36	229.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.10	-5.10

STN INTERNATIONAL LOGOFF AT 08:48:19 ON 24 NOV 2010